





Created: 3 weeks, 2 days after earthquake

1,000

PAGER

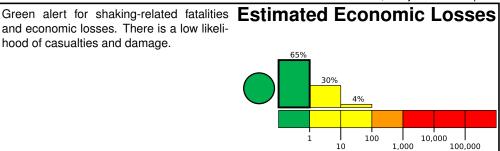
Version 1

M 5.4, 45 km ENE of Barcelona, Philippines

Origin Time: 2023-12-02 17:43:14 UTC (Sun 01:43:14 local) Location: 8.2748° N 126.8279° E Depth: 35.0 km

Estimated Fatalities 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000) ESTIMATED MODIFIED MERCALLI INTENSITY		_*	8,623k	930k	0	0	0	0	0	0
		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 127.2°E urigao Cantilan abadbaran Butuan Bayugan lanay

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1987-05-23	151	5.7	VII(70k)	1	
1990-02-08	292	6.7	VIII(96k)	1	
2002-03-05	382	7.5	VIII(12k)	15	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

	from GeoNames.org					
	MMI	City	Population			
	IV	Tidman	3k			
	IV	Hinatuan	10k			
	IV	Bislig	68k			
	IV	Barcelona	4k			
	IV	Lingig	6k			
	IV	Loyola	3k			
	Ш	Magugpo	233k			
	Ш	Butuan	310k			
	Ш	Libertad	250k			
l	Ш	Davao	1,213k			
ı	Ш	Digos	116k			

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.